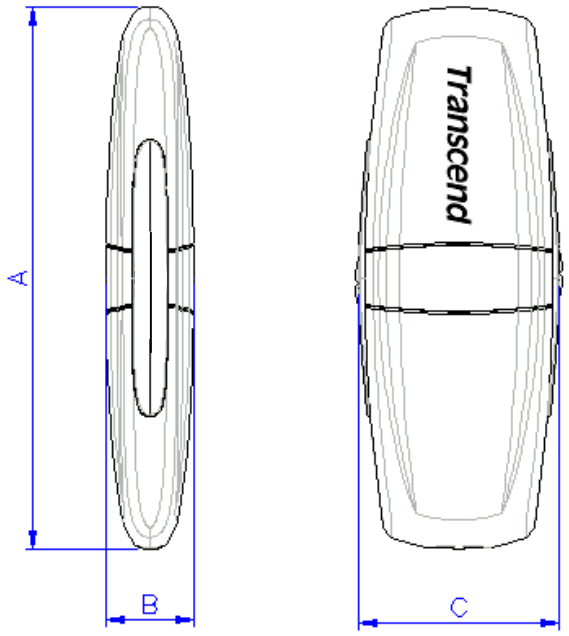
# TS1GJF2A

**1GB USB2.0 JetFlash™ 2A**

## Description

TS1GJF2A is a 1GB USB Flash Drive with 1pcs of 1Gx8 (or 2pcs of 512Mx8) Flash Memory assembled on printed circuit board.

## Outline




## Features

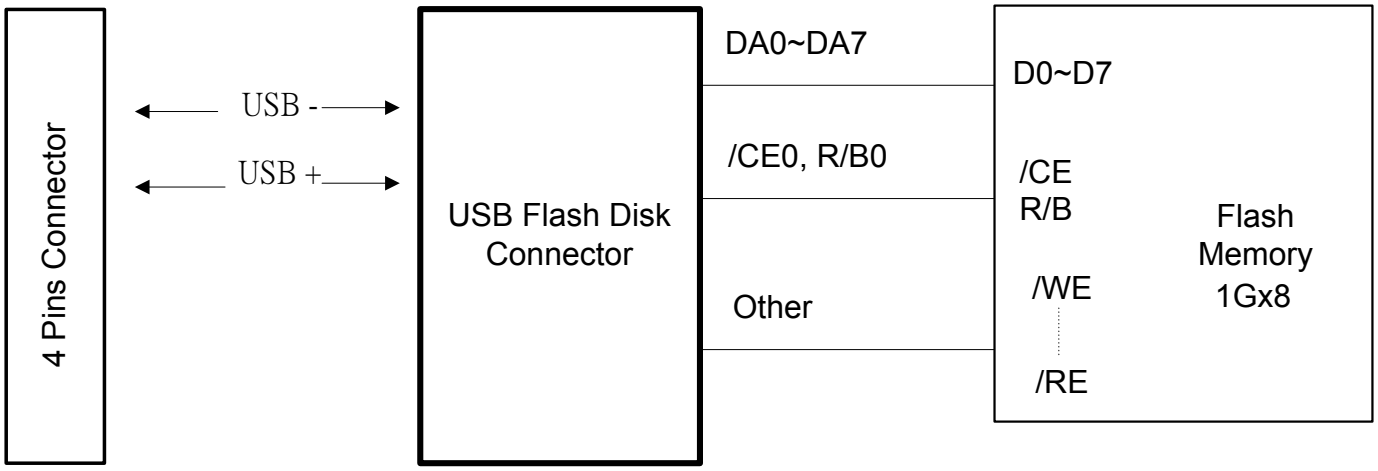
- Color: Silver
- USB Interface: Compliant with USB specification 2.0.
- Security Function: Password protection provided
- Boot-Up Function: Support USB-ZIP/USB-HDD boot-up mode supported
- PC-Lock Function: Makes JF2A the key to your computer
- No external power or battery needed
- LED indicates the usage status.

## Dimensions

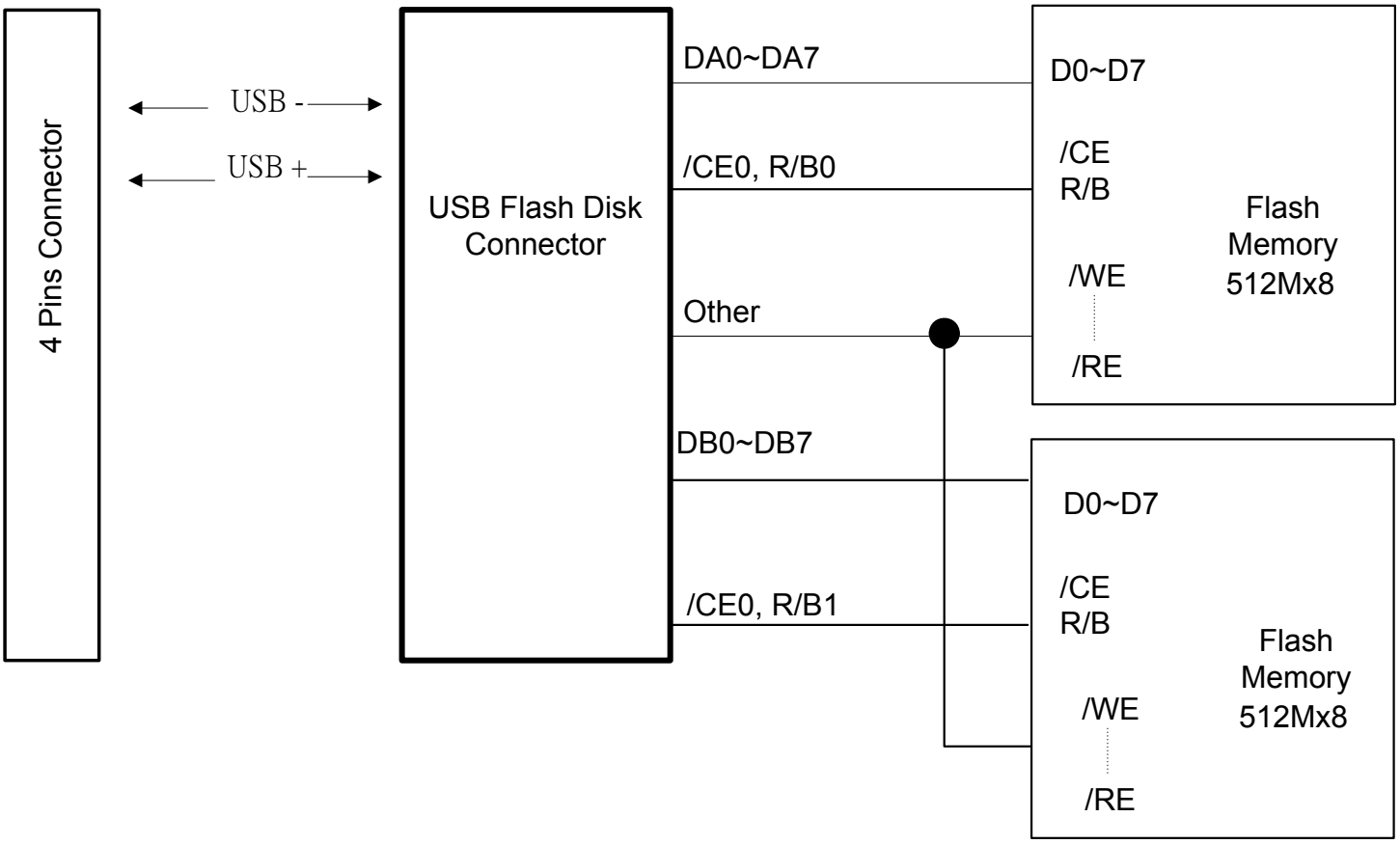
| Side | Millimeters | Inches |
|---|---|---|
| A | 75 ± 1.00 | 2.95 ± 0.04 |
| B | 11 ± 1.00 | 0.43 ± 0.04 |
| C | 25 ± 1.00 | 0.98 ± 0.04 |

## Block Diagram

- **With 1 pcs of 1Gx8 Flash Memory**




- **With 2 pcs of 512Mx8 Flash Memory**



## Pinouts

| Pin No. | Pin Name |
|---|---|
| 01 | VCC |
| 02 | USB- |
| 03 | USB+ |
| 04 | VSS |

## Pin Identification

| Symbol | Function |
|---|---|
| USB- | USB differential signal: |
| USB+ | The pairs are used to transmit Data/Address/Command |
| VSS | Ground |
| VCC | USB power input |

## Specifications

| | |
|---|---|
| Storage Capacity | 1GB |
| Data Retention | 10 years |
| Erase Cycles | >100,000 times |
| Connector Durability | 10,000 times |
| System Performance | Read: 12MB/sec (max.), Write: 8MB/sec (max.) |
| Power Supply | DC 5V±10% via the USB port |
| Temperature Range | Operation: 0-70°C, Non-Operating: -40°C-85°C |
| Certificates | CE, FCC, BSMI |

## Absolute Maximum Ratings

| Symbol | Parameter | Rating | Unit |
|---|---|---|---|
| $V_{CC}$ | Power Supply | 4.5 to 5.5 | V |
| $V_{IN}$ | Input Voltage | 3 to 3.6 | V |

## DC Characteristics:

| Symbol | Parameter | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|
| $I_{IL}$ | Input Leakage Current (No pull-up or pull-down) | -10 | | 10 | μA |
| $I_{OZ}$ | Tri-State Leakage Current | -10 | | 10 | μA |
| $V_{IL}$ | Input Low Voltage | | | 0.8 | V |
| $V_{IH}$ | Input High Voltage | 2.0 | | | V |
| $V_{OL}$ | Output Low Voltage ($I_{OL}$=4mA) | | | 0.4 | V |
| $V_{OH}$ | Output High Voltage ($I_{OH}$=4mA) | 2.4 | | | V |
| Rt | Input pull-up/down resistance ($V_{IL}$=0V or $V_{IH}$= $V_{CC}$) | 40 | 75 | 190 | KΩ |
| $I_{ACT}$ | Active Current | | | 73 | mA |
| $I_{SLP}$ | Sleep Current | | | 120 | μA |

## Recommended Operating Conditions

| Symbol | Parameter | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|
| $V_{CC}$ | Power Supply Voltage | 4.5 | 5 | 5.5 | V |
| $V_{IN}$ | Input Voltage | 3 | 3.3 | 3.6 | V |
| $V_{CC18}$ | Internal Power Supply | 1.62 | 1.8 | 1.98 | V |

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